

## MASS FLOW CONTROLLER

### ABSTRACT OF THE DISCLOSURE

A mass flow controller includes a base having a passage that allows a fluid to  
5 pass through the passage. A first control valve controls a mass flow of a fluid passing  
through the passage. A second control valve controls a full scale of the mass flow of  
the fluid. A bypass portion is disposed in the passage through which the fluid passes.  
A mass flow sensor measures the mass flow of the fluid passing through the bypass  
portion. The second control valve is connected to the passage adjacent to the bypass  
10 portion for controlling the full scale of the mass flow of the fluid passing through the  
bypass portion.